RetroSound™

Model One
Owner's & Installation Guide

Model One AM / FM Radio w/ USB MP3 Playback
and Infinimount Shaft/Bracket System

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Version 1.0
Jan 2008

Warning

This equipment has been tested and found to comply with the limits for a Class B device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy, and, if not installed and used in accordance with instructions, may cause harmful interference with radio communications. However, there is no guarantee that radio interference will not occur in particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to consult the dealer or an experienced radio/TV technician for help. You are cautioned that any changes or modifications not expressly approved in this manual could void your authority to operate this equipment.

Precautions

• Avoid installing the unit where it would be subject to high temperatures, such as in direct sunlight or a hot air stream from the heater, or where it would be subject to dust, dirt, or excessive vibration.
• Do not turn on the unit if the temperature inside the car is very high. Always cool down the unit before usage. Parking your car in direct sunlight will result in a temperature rise.
• If the unit does not turn on, check the connections first. Then check whether the fuse in your vehicle's fuse box is blown or check the fuse at the unit's wiring harness.
• Carefully read this manual before using the unit. If you encounter any problems that are not covered in this manual, please consult the dealer where you purchased the unit or the dealer nearest to you. You may also email us at:
support@retrosoundusa.com

Welcome!

Thank you for your purchase of the Retrosound Model One Radio. We hope it will provide you with years of enjoyment, below are just some of the features that this unit is capable of:

- LCD Display w/ enhanced viewing angle & daylight compatible
- LCD Display shows MP3/WMA track names
- AM/FM PLL tuner w/ 30 presets
- 60W x 4 (Integrated amplifier)
- 2pr RCA pre amp outputs to add an external amplifier
- Onboard CD Changer controller output (to control optional 10 Disc changer)
- Front mounted USB port, plug in any USB flash drive and play MP3 / WMA / AAC files directly off the drive
- Patent Pending INFINIMOUNT adjustable shaft system w/ removable Universal bracket (included)
- Insulated bracket system and external shaft system reduces electrical noise inherent in older vehicles
- Front Aux input, plug in any MP3 player or other portable device, (cell phone, etc)
- Full Function 18 key remote control
- Main unit is remote mountable and comes with "U" bracket for mounting under the seat or a glove box
- Optional external IR sensor w/ 94" cable, allows for easy remote operation via the included remote control
- Adjustable faceplate angle, allows mounting of faceplate display to virtually any dash

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Installation & Use Warnings

Observe the following warnings when using this unit.

❑The driver should neither watch the display nor operate the system while driving.
Watching the display or operating the system will distract the driver from looking ahead of the vehicle and can cause accidents. Always stop the vehicle in a safe location and use the parking brake before watching the display or operating the system.

❑Use the proper power supply.
This product is designed for operation with a negative grounded 12 V DC battery system. Never operate this product with other battery systems, especially a 24 V DC battery system.

❑Keep batteries and insulation film out of reach of infants.
Batteries and insulation film can be ingested, so keep them out of the reach of infants. If an infant ingests a battery or insulation film, please seek immediate medical attention.

❑Protect the Deck Mechanism.
Do not insert any foreign objects into the slot of this unit.

❑Do not disassemble or modify the unit.
Do not disassemble, modify the unit or attempt to repair the product yourself. If the product needs to be repaired, consult your dealer or an authorized Panasonic Servicenter.

❑Do not use the unit when it is out of order.
If the unit is out of order (no power, no sound) or in an abnormal state (has foreign objects in it, is exposed to water, is smoking, or smells), turn it off immediately and consult your dealer.

❑The remote control unit should not lie about in the car.
If the remote control unit lies about, it could fall on the floor while driving, get wedged under the brake pedal, and lead to a traffic accident.

❑Refer fuse replacement to qualified service personnel.
When the fuse blows out, eliminate the cause and have it replaced with the fuse prescribed for this unit by a qualified service engineer. Incorrect replacement of the fuse may lead to smoke, fire, and damage to the product.

Observe the following cautions when using this unit.

❑Keep the sound volume at an appropriate level.
Keep the volume level low enough to be aware of road and traffic conditions while driving.

❑Do not insert or allow your hand or fingers to be caught in the unit.
To prevent injury, do not get your hand or fingers caught in moving parts or in the disc slot. Especially watch out for infants.

Observe the following cautions when installing.

❑Refer wiring and installation to qualified service personnel.
Installation of this unit requires special skills and experience. For maximum safety, have it installed by your dealer. Panasonic is not liable for any problems resulting from your own installation of the unit.

❑Follow the instructions to install and wire the product.
Not following the instructions to properly install and wire the product could cause an accident or fire.

❑Take care not to damage the leads.
When wiring, take care not to damage the leads. Prevent them from getting caught in the vehicle chassis, screws, and moving parts such as seat rails. Do not scratch, pull, bend or twist the leads. Do not run them near heat sources or place heavy objects on them. If leads must be run over sharp metal edges, protect the leads by winding them with vinyl tape or similar protection.

❑Use the designated parts and tools for installation.
Use the supplied or designated parts and appropriate tools to install the product. The use of parts other than those supplied or designated may result in internal damage to the unit. Faulty installation may lead to an accident, a malfunction or fire.

❑Disconnect the lead from the negative (–) battery terminal before installation.
Wiring and installation with the negative (–) battery terminal connected may cause electrical shock and injury due to a short circuit.
Some cars equipped with the electrical safety system have specific procedures of battery terminal disconnection.
FAILURE TO FOLLOW THE PROCEDURE MAY LEAD TO THE UNINTENDED ACTIVATION OF THE ELECTRICAL SAFETY SYSTEM RESULTING IN DAMAGE TO THE VEHICLE AND PERSONAL INJURY OR DEATH.

❑Never use safety-related components for installation, grounding, and other such functions.
Do not use safety-related vehicle components (fuel tank, brake, suspension, steering wheel, pedals, airbag, etc.) for wiring or fixing the product or its accessories.

❑Installing the product on the air bag cover or in a location where it interferes with airbag operation is prohibited.

❑Check for piping, gasoline tank, electric wiring, and other items before installing the product.
If you need to open a hole in the vehicle chassis to attach or wire the product, first check where the wire harness, gasoline tank, and electric wiring are located. Then open the hole from outside if possible.

❑Never install the product in a location where it interferes with your field of vision.

❑Never have the power cord branched to supply other equipment with power.

❑After installation and wiring, you should check the normal operation of other electrical equipment.
The continuation of their using in abnormal conditions may cause fire, electrical shock or a traffic accident.

❑In the case of installation to an airbag equipped car, confirm warnings and cautions of the vehicle manufacturer before installation.

❑Make sure the leads do not interfere with driving or getting in and out of the vehicle.

❑Insulate all exposed wires to prevent short circuiting.

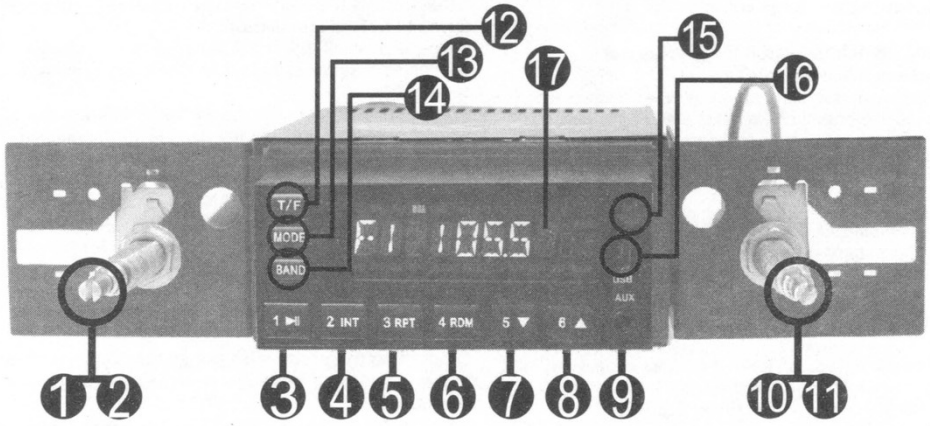
❑This unit is designed for use exclusively in automobiles.

❑Do not operate the unit for a prolonged period with the engine turned off.
Operating the audio system for a long period of time with the engine turned off will drain the battery.

❑Do not expose the unit to direct sunlight or excessive heat.
Otherwise these will raise the interior temperature of the unit, and it may lead to smoke, fire, or other damage to the unit.

❑Do not use the product where it is exposed to water, moisture, or dust.
Exposure of the unit to water, moisture, or dust may lead to smoke, fire, or other damage to the unit. Make especially sure that the unit does not get wet in car washes or on rainy days.

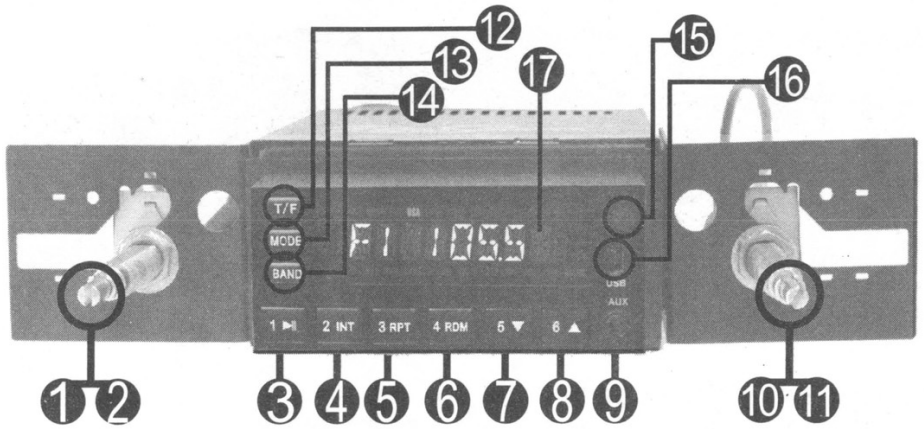
Location of Controls (Quick Start Guide)



Please review this section for quick reference, as it contains information on the location of controls and basic operations. For specific details on the particular operation, please look in the table of contents.

1. Turning The center Left Shaft left or right, controls the volume attenuation up and down function. Note: Volume range is 0-30, factory default is set at 15.
2. Pressing the center Left shaft inward activates the SEL function, press this repeatedly to cycle through the DSP EQ, Bass, Treble, Balance & Fader Function(s).
3. Pressing the "1" button allows for selection of a radio preset or when a CD Changer is connected, or a digital file is played in USB Mode, this becomes the play/pause button.
4. Pressing the "2" button allows for selection of a radio preset or when a CD Changer is connected,or a digital file is played in USB Mode- pressing this button, the unit will play 10 seconds of each track on the CD you have selected, Press again to cancel this function.
5. Pressing the "3" button allows for selection of a radio preset or when a CD Changer is connected, or a digital file is played in USB Mode,pressing this button will allow you to repeatedly play the present track.
6. Pressing the "4" button allows for selection of a radio preset or when a CD Changer is connected, or a digital file is played in USB Mode,pressing this button will allow you to randomly play all tracks on the current disc or track selected.
7. Pressing the "5" button allows for selection of a radio preset or when a CD Changer is connected, or a digital file is played in USB Mode,pressing this button will allow you to select the previous disc in the changer's magazine. Note: The disc selected will not appear on the display until it loads the selected disc. In USB mode, this button allows you to play the first track of the previous folder.
8. Pressing the "6" button allows for selection of a radio preset or when a CD Changer is connected, or a digital file is played in USB Mode,pressing this button will allow you to select the Next disc in the changer's magazine. Note: The disc selected will not appear on the display until it loads the selected disc.In USB mode, this button allows you to play the first track of the Next folder.
9. AUX Input, Allows for you to plug in any device with a headphone 1/8"(3.5mm) output, (Example: Walkman, CD Player, Tape recorder, Mp3 Player, etc) Use the MODE button to select the Aux In mode.
10. POWER on/off Press the Right Center Knob to turn the unit on, Press and hold the Right center knob for 2 seconds to turn the unit off.
11. Turning the Right Center knob to the right & left allows you to tune to the next or previous am/fm frequency. When playing a CD(if a CD changer is attached), this center shaft will allow you to change tracks up or down, also this shaft will allow you to change tracks when listening to mp3 / wma files on an attached USB flash drive.

(CONTINUED) Location of Controls



Please review this section for quick reference, as it contains information on the location of controls and basic operations. For specific details on the particular operation, please look in the table of contents.

12 T/F Button, Press this to view the clock, Note: when playing Mp3/WMA files from the attached USB Drive, this function allows you to view the track, album, artist info (Id-3) information from these files.

13 MODE Function, Press this button to switch between all modes of operation, Radio/USB/AUX-In/CD Changer

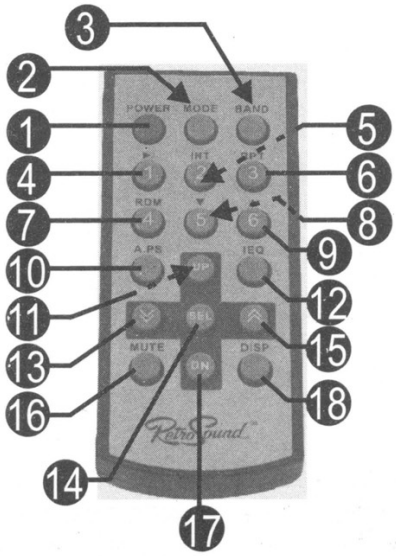
14 BAND Function, Press this button to switch between 3 FM BANDS (FM 1/FM 2/ FM 3) 2 AM BANDS (AM-1 AM-2) 30 PRESETS TOTAL To save your preset, simply hold the preset button down, listen for the confirming beep, preset will be then saved.

15 IR RECEIVER: Point the included IR remote at this area to operate your unit remotely.

16 USB INPUT: This mini USB input allows you to connect (via the included mini USB to Female standard USB adapter) any USB flash/thumb drive and when the unit is in USB mode, you can play Mp3 & unprotected (no DRM) WMA/AAC files off of the USB drive!

17 Display Window

Included IR Remote Control Legend



1 Press to turn on unit, press and hold to turn unit off

2 Press MODE to cycle through Radio,Aux-in,CDC,USB modes

3 Press BAND to cycle through AM/FM band (Fm-1-3, Am-1-2)

4 Press 1 to access preset in Radio mode, in CDC mode, used to access Play/Pause

5 Press 2 to access preset in Radio mode, in CDC mode, used to access 10 second preview of CD Tracks

6 Press 3 to access preset in Radio mode, in CDC mode, used to access 10 second preview of CD Tracks

7 Press 4 to access preset in Radio mode, in CDC mode, used to access RANDOM mode when playing CD

8 Press 5 to access preset in Radio mode, in CDC mode, used to select a previous CD in your CDC Magazine

9 Press 6 to access preset in Radio mode, in CDC mode, used to select the next CD in your CDC Magazine

10 Press A.PS to scan Radio Presets and Radio stations (this will allow you to hear 5 seconds of the preset on the band group selected

11 Press UP to increase Volume

12 Press IEQ to select preset DSP sound modes: Normal(Flat), Rock, Pop, Classic

13 Press this in Radio mode to scan stations/presets, in USB mode use to change tracks, in CDC Mode use to select CD Tracks

14 Press SEL repeatedly to cycle through the Bass, Treble, Balance & Fader Function(s).

15 Press this in Radio mode to scan stations/presets, in USB mode use to change tracks, in CDC Mode use to select CD Tracks

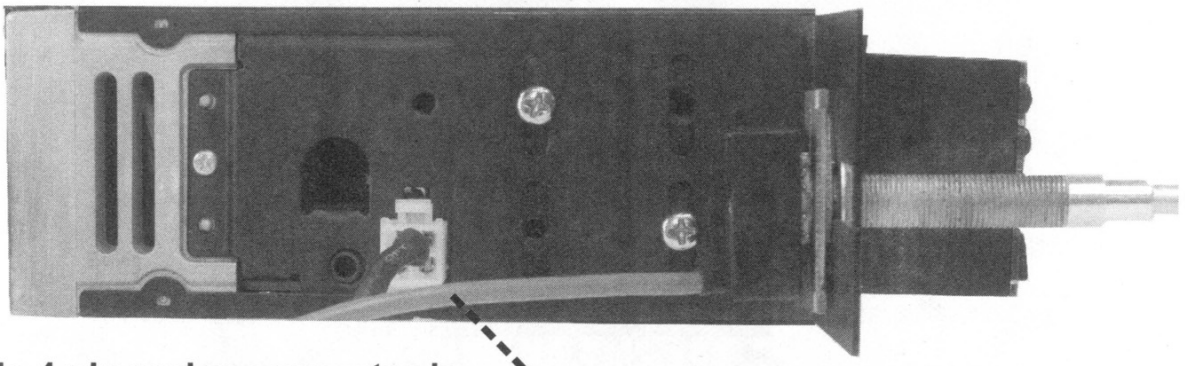
16 Press this to MUTE Volume

17 Press DW/DN to decrease Volume

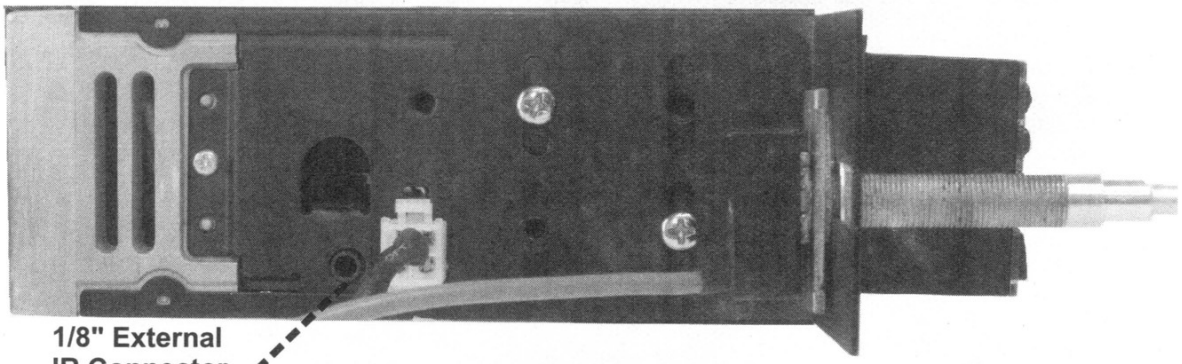
18 Press DISP to view clock, and when in USB mode, this allows you to view mp3/WMA file information (ID-3 info)

(CONTINUED) Location of Controls & Connectors

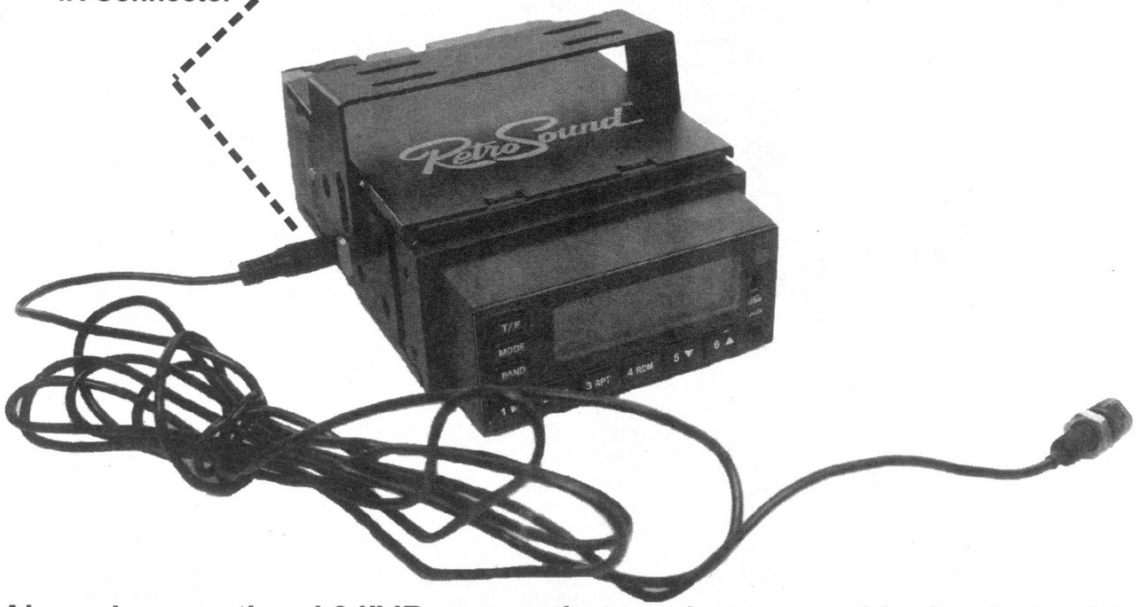
Left Side View of Model One



This 4 pin molex connector is for the Infinimount Shaft system, one of these connectors is located on each side of the Model One Main Unit.



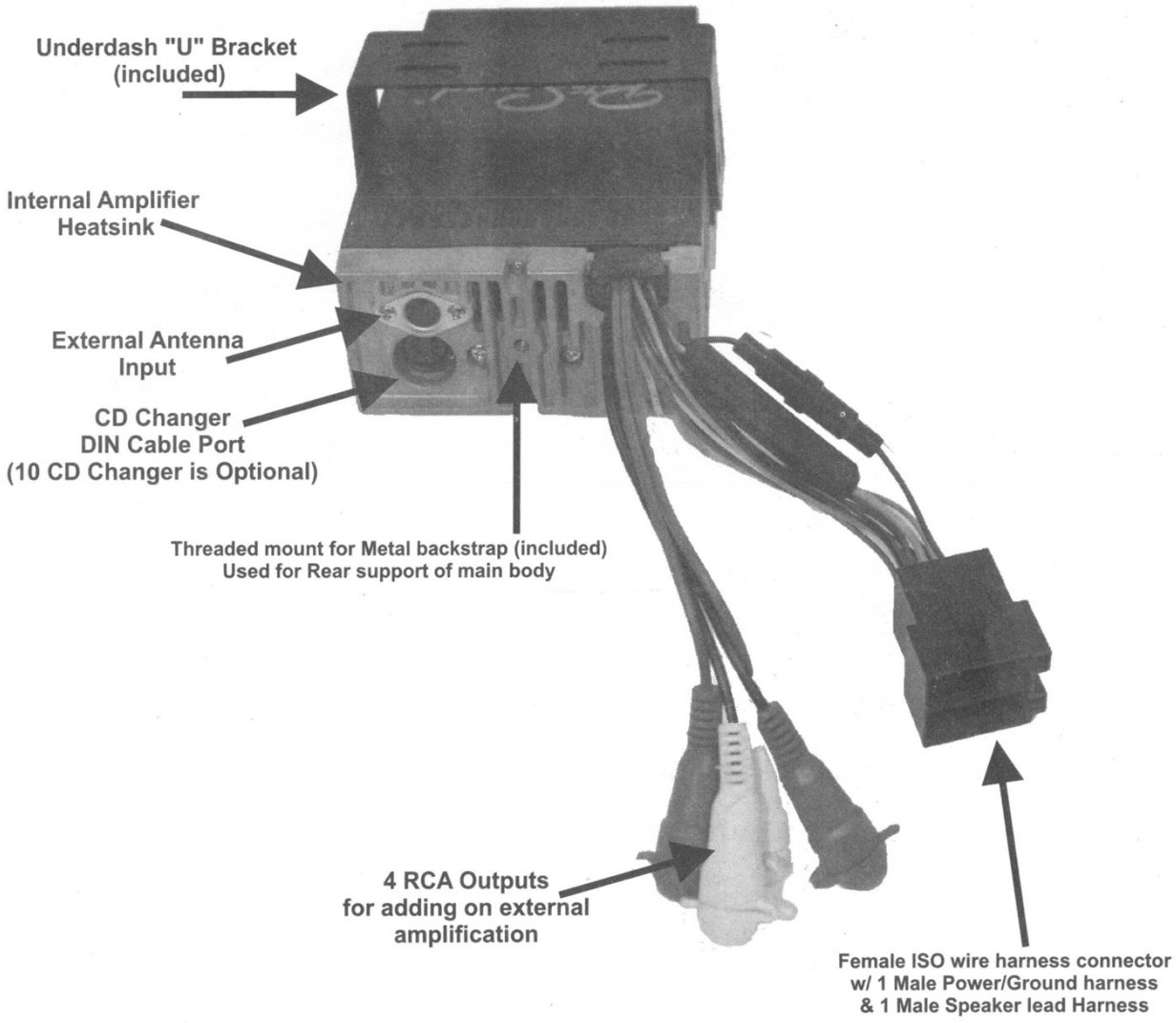
1/8" External IR Connector



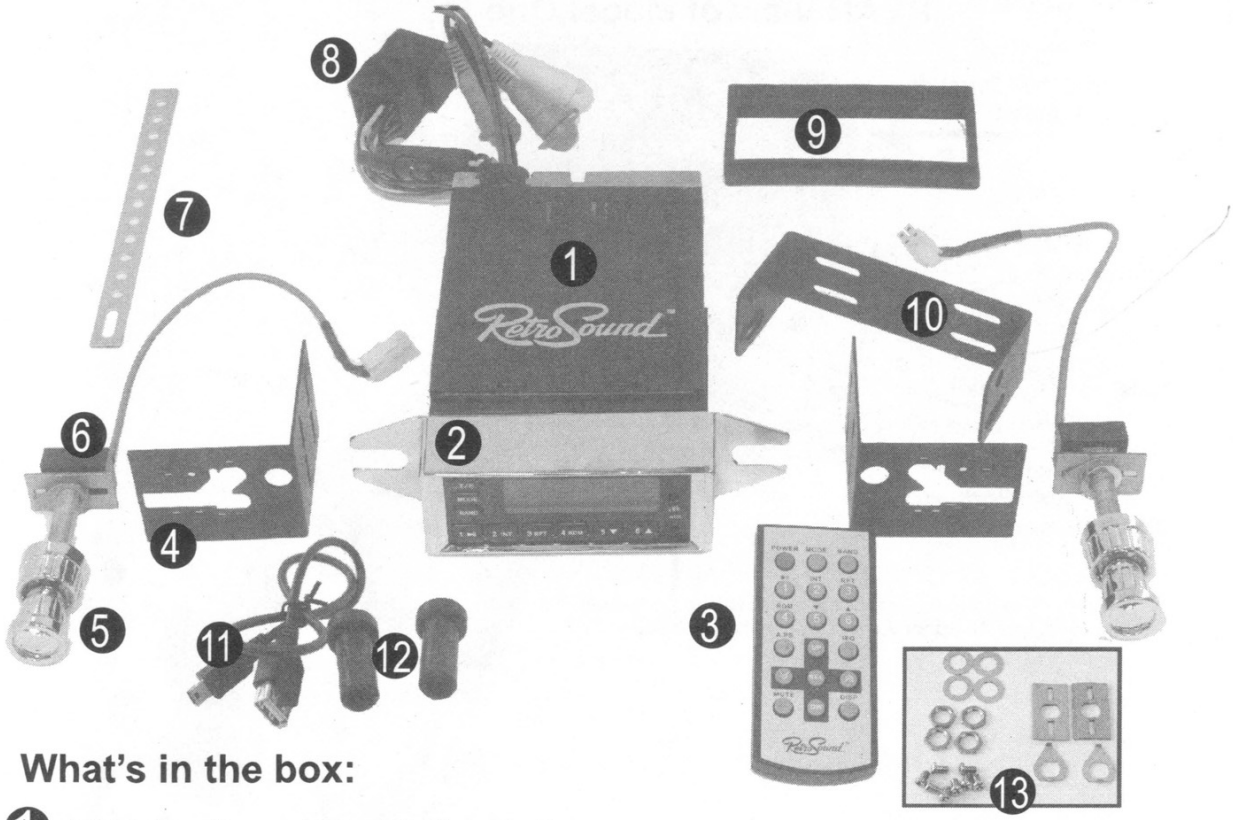
Above is an optional 94" IR sensor that can be mounted in the dash of the car if you want to totally hide the unit and operate it only from the remote control.

(CONTINUED) Location of Controls & Connectors

REAR View of Model One



What's in the Box

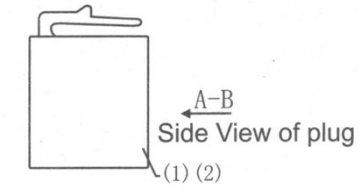


What's in the box:

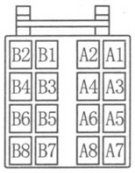
1. (1) Retro Sound Model One unit
2. (1) Chrome Face Plate Adapter
3. (1) 18 key Remote Control (Includes CR2025 Battery/already installed)
4. (2) Infinimount Brackets
5. (4) Chrome Radio knobs
6. (2) Infinimount Shaft System
7. (1) Metal backstrap used to secure main unit behind dash
8. (2) ISO Wiring harness to connect to Model One
9. (1) Rubber Gasket Adapter
10. (1) "U" bracket for underdash / under seat installation
11. (1) Mini USB to Female Standard USB cable
12. Rubber shaft covers
13. (misc) Screws, washers & parts to mount Infinimount Shafts & Brackets

Preparing to Install your unit

1. Familiarize yourself with the Model One Wiring harness (Note: There are 2 plug connectors, designated as Plug "A" which contains the speaker leads & Plug "B" which contains your power/ground connections)



HOUSING:ISO TAB 16P
TERMINAL:ISO REC



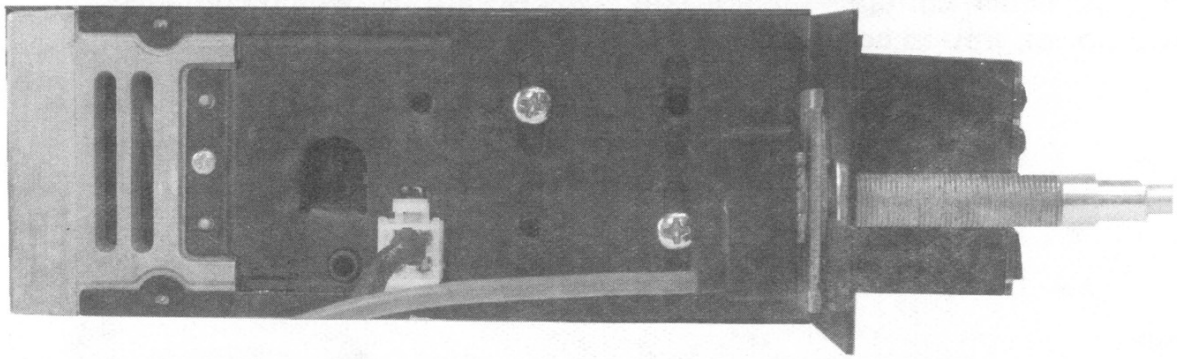
Plug #	Color	Function of Plug lead
A1	Blue	(+) FR+ speaker
A2	Blue/black	(−) FR- speaker
A3	Gray	(+) RR+ speaker
A4	Gray/black	(−) RR- speale
A5	White	(+) RL+ speaker
A6	White/black	(−) RL-speaker
A7	Green	(+) FL+ speaker
A8	Green/black	(−) FL- speaker
B1	—	
B2	—	
B3	—	
B4	Yellow	To +12V battery power Terminal (for constant power)
B5	Blue/white	(Power Antenna Turn on lead)
B6	—	
B7	Red	To Acc/Ignition switch lead (if no ignition/acc lead, connect to +12V
B8	Black	GND To The metal surface of the car or to - terminal on battery

Installation Notes:

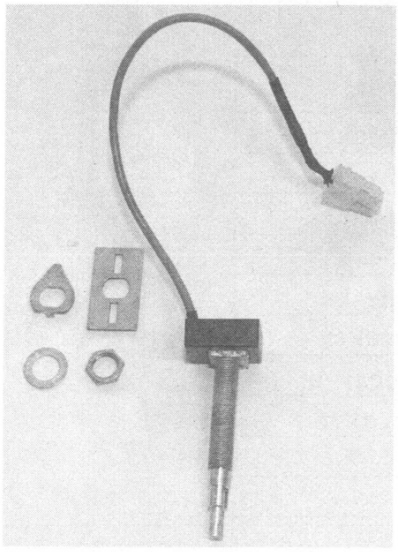
To prevent damage to the unit, do not connect the power connector until you have completed the wiring process

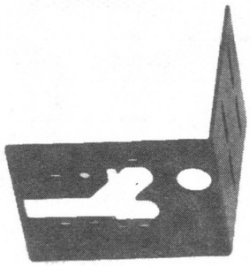
Preparing to Install your unit (Continued)

2. Next: Assemble the Model One unit's Infinimount Bracket and shaft system using the supplied screws and shaft nuts.



3. Find the Infinimount Shafts & Brackets (2 of each enclosed)

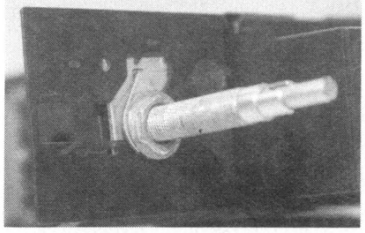




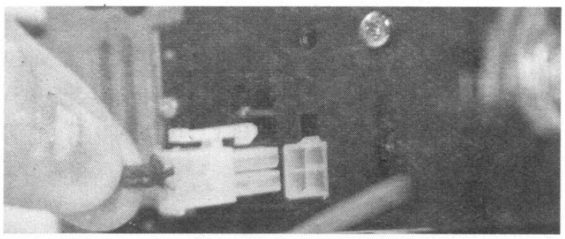
X 2

4. Due to the flexibility of installation variations this system offers, in order to match the Infinimount shaft & bracket system to the proper shaft width of your vehicle, simply measure the distance between your existing shaft holes center to center, then mount the shaft system to the bracket using the suppled shaft nuts and shaft mounting guide and finger tighten to prepare for the final installation (see figure A below). once you are sure of proper width, then tighten prior to final installation, be sure to plug the shafts into the side of the main unit to activate the shaft control functions (see figure B below).

A.



Mount Shaft to Bracket

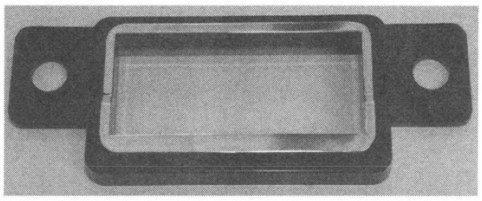


B.

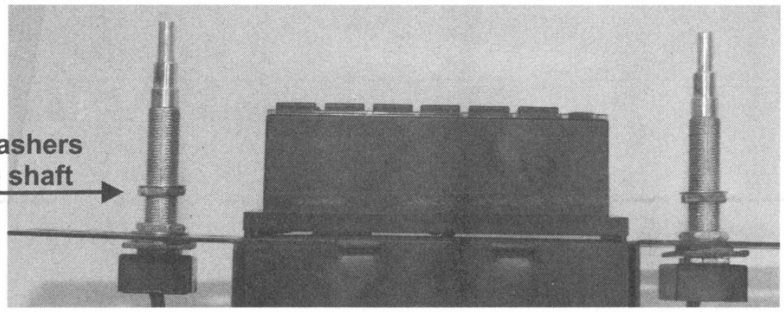
Plug Shaft into Side of Main Unit

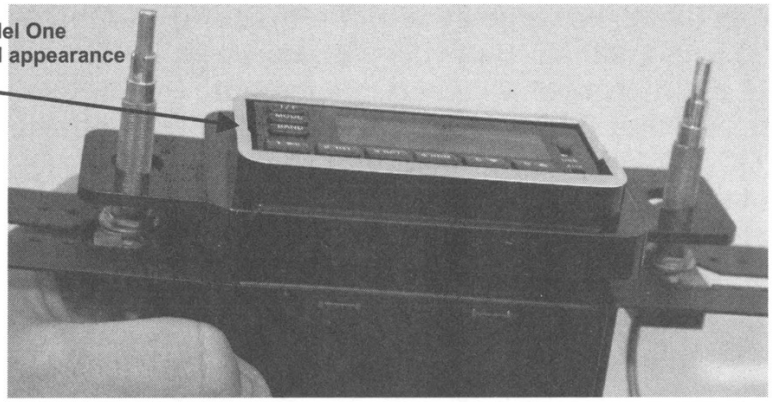
Preparing to Install your unit (Continued)

5. Next: Prepare (if needed) set your vehicle specific kit (Optional 64-66 Mustang faceplate shown for this portion of the manual.)



6. Next: Once shafts are lined up to the shaft openings on the vehicle specific faceplate adapter, use a nut and washer to hold the faceplate in place on the shafts so the Model One's face is flush with the opening of the faceplate (see photos below).





Optional:
64-66 Mustang Faceplate shown above

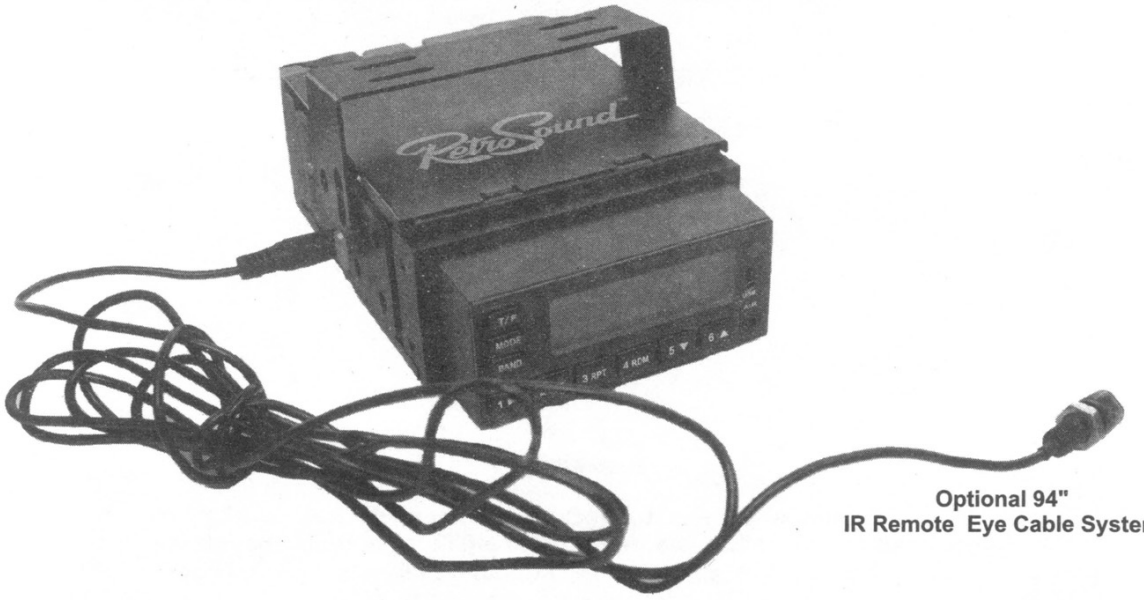
Tighten shaft nuts and make sure that shaft depth works with your dash configuration, the Retrosound Infinimount bracket system and shafts are extremely adjustable and care should be taken to ensure proper final fit for the perfect installation.

Preparing to Install your unit (Continued)

7. The Retrosound Model One comes complete with a set of knobs and a chrome faceplate adapter that fits over the main face, this configuration out of the box will fit many American and European cars, please consult us at support@retrosoundusa.com regarding a universal or vehicle specific face-plate & knob kit for your car. Below is a Retro Model One shown with an optional 67-68 Camaro faceplate & knobs.

Optional:
67-68 Camaro Faceplate shown above

8. The Retrosound Model One also comes with an under dash bracket so you can mount the unit under the dash or in a glove box, hidden away from view. This hidden type of installation is important if you want to leave the original radio in place, but enjoy the modern sound and features of the Retrosound Model One system! Below is a photo showing the model One with the Under dash bracket attached, please note that in this type of installation, due to the fact that the included wireless remote duplicates all functions of the unit you DO NOT have to connect the shafts to operate the unit, as the included remote will operate all functions. Also shown in the photo is an optional 94" IR sensor that can be mounted in the dash of the car if you want to totally hide the unit and operate it only from the remote control.



Optional 94"
IR Remote Eye Cable System

Preparing to Install your unit (Continued)

9. NOTE: The following installation option is for advanced knowledgeable custom installation specialists: The Retrosound Model One faceplate is removable to allow for unique angled installations, canted angles, upside down mounting and other unique configurations limited only to your installation skills. Below is a photo illustrating what the unit looks like with the faceplate removed, connected by cables from the body of the main unit to the faceplate.

Model One w/
Advanced removable
Faceplate for unique applications

10. After preparing for your installation and have figured out your installation configuration, proceed to install the unit and connect the wiring, and make sure you use the metal back strap to support the main body of the the unit from the rear.

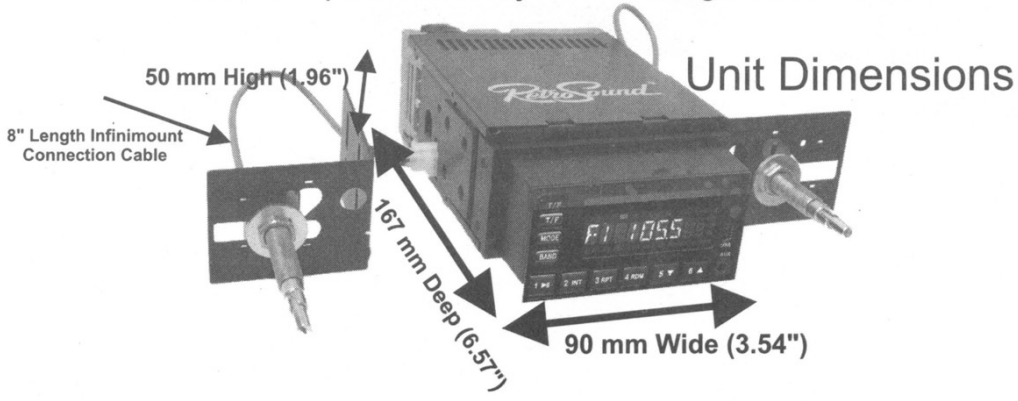
Install Metal Backstrap behind
unit for rear support of the main body

Model One Specifications

SPECIFICATIONS:

	Specs
Radio	
Frequency	FM：87.5～107.9MHz，AM：530～1710KHz
Sensitivity	10 dB μV
Stereo Separation	>30dB
Signal /Noise ratio	>60dB
USB/CDC	
Signal /Noise ratio	>90dB
Stereo Separation	>50dB（1KHz）
Audio frequency	20Hz～20KHz
Distortion	⩽0.5%
LINE－OUT	
Voltage Output	2000mV
Line-out impedence	10KΩ
Main Unit	
Power source	DC 10.5～16V
Max current	<10A
Stand-by current	<10.0mA
Max-power output	60 W x 4 (22 x 4 rms)
Speaker impedence	4Ω

All Unit Specs Are Subject To Change without notice



Using your Unit (Detail)

Setting the Clock:

Press the T/F Button on the face of the unit when the unit is turned on. Press and hold the T/F button when the clock is seen on screen blinking, turning the volume control shaft right will adjust the minutes & turning it to the left will adjust the hours. Note: Cycling through the 24 hour time period will allow you to also select AM or PM as well. Press the SEL button on the left control shaft to confirm the clock setting.

Press and hold to activate clock setting mode

Turning The Unit On/off:

Press the Right Center Knob to turn the unit on, look for "RETROSOUND" on power up. Press and hold the Right center knob for 2 seconds to turn the unit off, the LCD display will show "GOODBYE" for your confirmation.

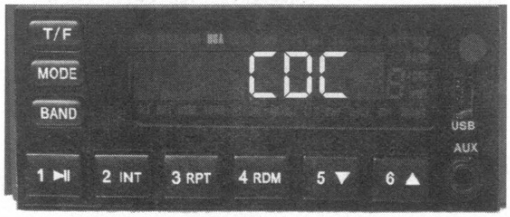
Volume Adjustment:

Turning The center Left Shaft left or right, controls the volume attenuation up and down function. Note: Volume range is 0-30, factory default is set at 15. Use the included remote to activate "mute" function

Select Your Listening Source:

MODE Function, Press this button to switch between all modes of operation, Radio/USB/AUX-In/CD Changer (CDC)

Press MODE to switch between modes of operation



Using your Unit (Detail)

Adjusting the Sound Properties:

The Retrosound Model One has many sound adjustment modes to help you tailor the radio to your preference. To access these modes of adjustment, press the left knob (SEL) in and turn the knob to the right or left to adjust, then press SEL again to cycle through the choices
When you have completed your adjustments, simply stop adjusting the mode and it will revert back to your current setting. Below are photos of the various sound adjustment modes available in all playback modes, Radio, CDC,Aux, USB.

When you first acces the SEL menu, DSP is off, turn the left shaft knob right to cycle through the presets or press SEL to move to the Bass & treble settings.

The FLAT DSP setting offers no bass or treble adjustment.

The CLASSIC DSP setting offers sonic adjustments that lend themselves to Classical Music.

The POP DSP setting accentuates the bass and treble settings, this is suitable for Bass heavy popular music.

The ROCK DSP setting accentuates the treble settings, this is suitable for Rock Music

The Bass adjustment function allows you to boostor cut the low frequencies from -7 to +7.

The Treble adjustment function allows you to boost or cut the High frequencies from -7 to +7.

The Balance adjustment function allows you to adjust or Pan the stereo sound from the left or right, this is helpful to compensate for the position of the driver in relation to the speaker location.Adjustment range is 0-15.

The Fader Control allows you to fade the sound from the front pair of speakers to your rear pair of speakers. Adjustment range is 0-15.

Press & hold BAND button to activate loudness function

To Activate the LOUDNESS function press and HOLD the BAND Button to activate the Loudness function. This function allows you to have boosted bass & treble at low listening volume and should be turned off at higher volumes. You will know this function is active when you see "LOUD" lit up on your display.

Using your Unit (Detail)

Special Modes of Operation/Initial Setup:

To modify the audible confirmation Beep on or off (factory default is "BEEP ON"), press and hold the SEL (Left Knob) and turn the knob to the Right to turn the confirmation beep off to "BEEP 2ND". See below for what the screens look like when the Changes are made.

Beep Off

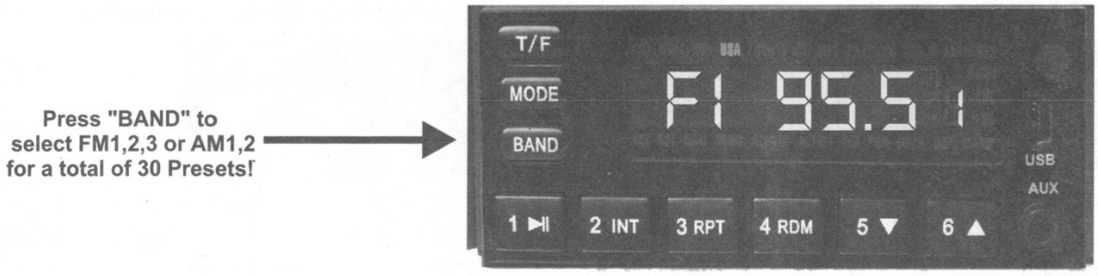
To modify the Initial volume level (factory default is 15), press and hold the SEL (Left Knob) until you see "I- VOL" and turn the knob to the Right to select the desired initial volume level (0-45 range) Press SEL to move on to the next selection. See below for what the screens look like when the Changes are made.

The Retrosound Model One has the capability to receive FM brodcast frequencies in other countries. To modify the default setting (USA) to EUR {Europe}, press and hold the SEL (Left Knob) until you see "AREA USA" turn the knob to the Right to select AREA USA or AREA EUR , Then press & HOLD the BAND Button on the front of the unit to confirm the change, you will see EUR display the change and the freqencies will work for Europe. Press SEL to move to the next function or don't press anything and the menu will revert back to the current source display.
(Please note that USA or EUR will be seen on the top of the display when in Radio mode to denote the frequency selection you have made.)

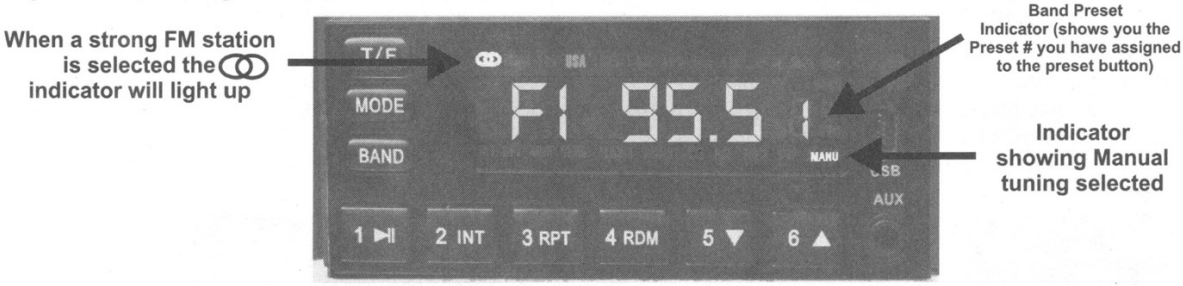
Using your Unit (Continued)

Selected Source: Radio

Once you've selected the Radio function, you can start storing your presets or tuning to your preferred station.



To Save a preset, tune to the station using the right shaft knob then choose the preset number you wish to assign to that station, press and hold the button, listen for a confirming Beep and now you have saved that preset. NOTE: turning the right shaft knob to the right or left will allow the tuner to select the next or previous strong station, this is known as the SEEK or "AUTO" function. To manually tune, press the right shaft knob in and you will see "MANU" appear in the lower right hand corner of the screen(see photo below): this will allow you to manually tune into any station you want, strong or weak.



Selected Source: USB

USB INPUT: The front mounted mini USB input allows you to connect (via the included mini USB to Female standard USB adapter) any USB flash/thumb drive, when the unit is in USB mode, you can play Mp3 & unprotected (no DRM) WMA files /AAC files off of the USB drive!

USB MODE:

Once you've connected your flash drive to the mini USB input on the front of the unit, the Model One will find your songs instantly and automatically start playing them. To change Songs, use the right shaft knob and turn it to the right or left to access the next or previous song. Please note that the function buttons on the front of the faceplate will allow you to Play/pause, listen to 10 seconds of each song(INT) or repeat the track you're listening to (RPT) or randomly select from all songs on the attached thumb/flash drive. *NOTE: The unit MUST be in USB mode for it to read the USB files on your flash/thumb drive, if your drive has a light, it should indicate that the drive is powered up by the Model One's USB port.*

Using your Unit (Continued)

Selected Source: USB (All About MP3 WMA & AAC files

MP3 (MPEG Audio Layer-3), WMA (Windows Media™ Audio), and AAC (Advanced Audio Coding) is a format for compressed audio files.

Common Facts about these compressed sound formats:
High bit rate and high sampling frequencies are recommended for high sound quality.
Selecting VBR (Variable Bit Rate) is not recommended because playing time is not displayed properly and there may be some audible skipping artifacts. The playback sound quality differs depending on the encoding circumstances. For details, refer to the user manual of your own encoding software.
Be sure to put an extension compatible with the format.

MP3 Notes:
It is recommended to set the bit rate to "128 kbps or more" and "fixed".

WMA Notes:
It is recommended to set the bit rate to "64 kbps or more" and "fixed". Do not set the copy protect attribute on the WMA file to enable this unit to play back.

AAC Notes:
It is recommended to set the bit rate to "128 kbps or more" and "Stereo". Files with the extension of ".m4a" encoded using iTunes version 6 or later, are playable on this unit. Some of the files using other encoders are not playable. Files encoded using Apple Lossless Encoder are not playable.
Files with copyright protection are not playable.

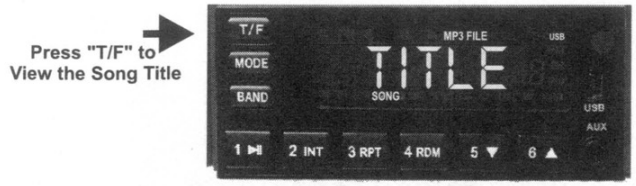
Caution! *Except for private use, duplicating audio data (including MP3/WMA/AAC data) or distributing, transferring or copying it, whether for free for if it is paid for without permission of the original copyright holder is strictly prohibited by the Copyright Act and international treaty.*

Viewing the MP3/WMA/AAC Song information

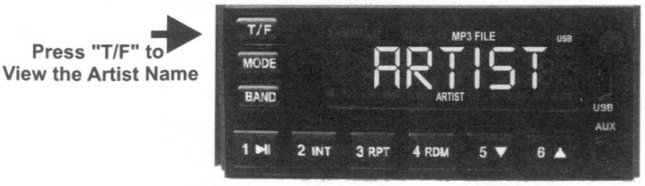
When playing Mp3/WMA/AAC files from the USB input, this function allows you to view the track name, album, artist info (id-3) information from these files. Below are examples of what you will view when pressing the T/F button in USB mode:

File Mode (Once selected, the track name will scroll accross the screen)

File Mode (Once selected, the Song Title name will scroll accross the screen)



Artist Mode (Once selected, the Track's Artist name will scroll accross the screen)



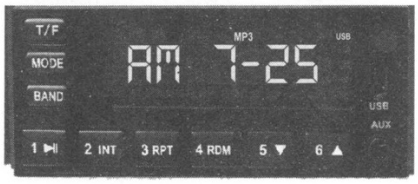
Using your Unit (Continued)

Album Mode (Once selected, the Track's Album name will scroll accross the screen)

Press "T/F" to View the Album Name

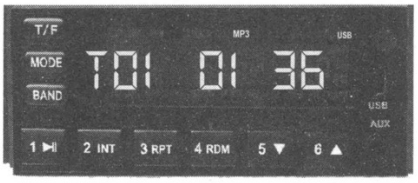
CLOCK Mode (Once selected, Clock will appear)

Press "T/F" to View the CLOCK



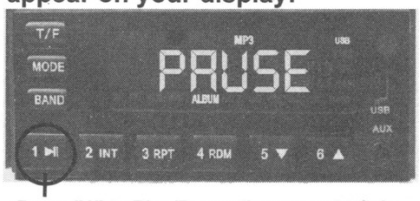
Track Time Display Mode (Once selected, Elapsed Track time will display)

Press "T/F" to View the CLOCK



Playback Modes available in USB Mode

Please note that the function buttons on the front of the faceplate (1-6) will allow you to Play/pause, listen to 10 seconds of each song (INT) or repeat the track you're listening to (RPT) or randomly select from all songs on the attached thumb/flash drive. The Up/Down arrow Keys (5,6) will allow you to play the first track from the present folder or the first track of the next folder (if more than one folder is present on the drive). Please see the modes below as they will appear on your display:



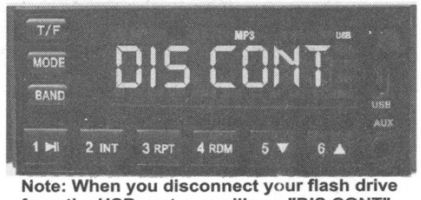
Press "1" to Play/Pause the current track

Press "2" (INT) to listen to 10 seconds of each track in the current folder (Press INT again to cancel this mode)

Press "3" (RPT) to Repeat the currently playing track (Press RPT again to cancel this mode)

Press "4" (RDM) to allow the unit to randomly play tracks on your USB drive (Press RDM again to cancel this mode)

Press "5" or "6"to allow you to play the first track from the present folder or the first track of the next folder (if more than one folder is present on the drive).

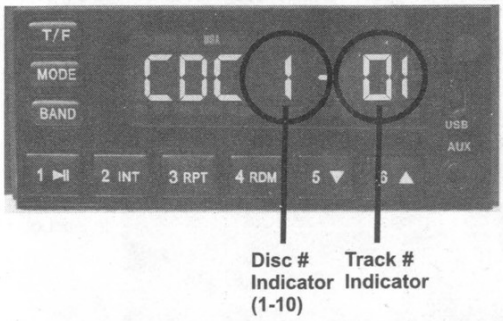


Note: When you disconnect your flash drive from the USB port you will see "DIS CONT" on screen, this means you have disconnected the music source from the Model One.

Using your Unit (Continued)

Selected Source: Optional Compact Disc Changer (CDC)

Once you've installed the Optional Compact Disc changer, Select the CDC Mode by Pressing the MODE button until you see CDC on the Model One's screen. (see photo below).



To Change songs, use the right shaft knob to play the next track on the selected disc or the previous track. To select the next or previous disc in the magazine, press the down or up arrow keys on the face of the unit (5 or 6).

Playback Modes available in CDC Mode

Please note that the function buttons on the front of the faceplate (1-6) will allow you to Play/Pause, listen to 10 seconds of each song (INT) or repeat the track you're listening to (RPT) or randomly select from all songs on the current CD. The Up/Down arrow Keys (5,6) will allow you to change to the next CD or the previous CD.
Please see the modes below as they will appear on your display:

Press "1" to Play/Pause the current track

Press "2" (INT) to listen to 10 seconds of each track in the current disc (Press INT again to cancel this mode)

Press "3" (RPT) to Repeat the currently playing track (Press RPT again to cancel this mode)

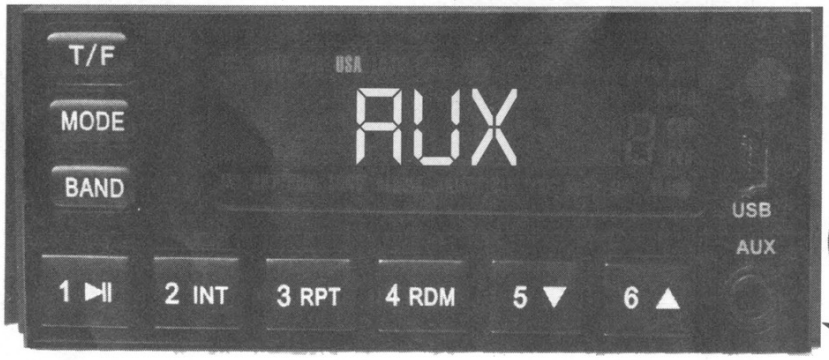
Press "4" (RDM) to allow the unit to randomly play tracks on your current disc (Press RDM again to cancel this mode)

Press "5" or "6" to allow you to select the next or previous CD in the magazine

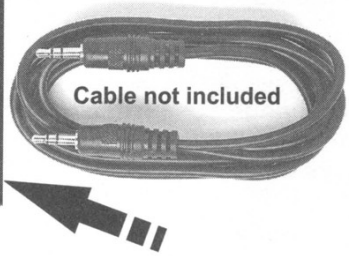
Using your Unit (Continued)

Selected Source: AUXILIARY INPUT (AUX)

Once you've plugged in your external music source using a 3.5mm (1/8") connector.
An example of an external source would be a Portable CD Player, Mini Disc Player, Portable Cassette Recorder,Ipod, MP3 Player, anything with a analog stereo headphone jack can be connected to this input.
Select the AUX Mode by Pressing the MODE button until you see AUX on the Model One's screen. (see photo below).



Connect your 3.5 mm (1/8") stereo headphone connector to the AUX in port on the front of the Model One



LIMITED WARRANTY

If your product does not work properly because of defects in materials and workmanship RetroSound a division of Retro Manufacturing, LLC (collectively referred to as "the warrantor") will, for the length of the period indicated in the chart below, which starts with the date of original purchase ("warranty period"), at its option either (a) repair your product with new or refurbished parts, or (b) replace it with a new or refurbished product. The decision to repair or replace will be made by the warrantor.

CATEGORIES	PARTS	LABOR
Radios	Two (2) Years	Two (2) Years
Speakers	One (1) Year	One (1) Year
Accessories (Remotes, cables, etc)	90 Days	90 Days

During the "Labor" warranty period, there will be no charge for labor. During the "Parts" warranty period, there will be no charge for parts. You must carry in or mail in your product prepaid during the warranty period. If non rechargeable batteries are included, they are not warranted. This warranty only applies to products purchased and serviced in the United States, Alaska, Hawaii or Puerto Rico. This warranty is extended only to the original purchaser of a new product which was not sold "as is". A purchase receipt or other proof of the original purchase date is required for warranty service.

To handle a warranty issue, contact us at 909-364-1372 or email us at support@retrosoundusa.com and get a Return Authorization number, all returns and warranty issues must receive a Return Authoriztion (RA) number. Any product received without a RA number will be Refused. Once a number is issued, send it to this address:

Retro Manufacturing, LLC
13831 Roswell Ave, Unit # J
Chino, California 91710
Phone: 909-364-1372
Fax: 909-364-8670

LIMITED WARRANTY LIMITS AND EXCLUSIONS

This warranty ONLY COVERS failures due to defects in materials and workmanship, and DOES NOT COVER normal wear and tear or cosmetic damage. The warranty ALSO DOES NOT COVER damages which occurred during shipment, failures which are caused by products not supplied by the warrantor, failures which result from accident, misuse, abuse, neglect, bug infection, mishandling, misapplication, alteration, faulty installation, set-up adjustment, maladjustment of consumer control, improper maintenance, improper antenna, inadequate signal reception or pickup, power line surge, improper voltage supply, lightning, modification, commercial use (such as use in hotels, offices, restaurants, or other business uses) or rental use of the product, or service by anyone other than the technician from Factory Service center or other authorized service centers, or damage that is attributable to acts of God.

THERE ARE NO EXPRESS WARRANTIES EXCEPT AS LISTED UNDER "LIMITED WARRANTY COVERAGE". THE WARRANTOR IS NOT LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OF THIS PRODUCT, OR ARISING OUT OF ANY BREACH OF THIS WARRANTY. (As examples, this excludes damages for lost time, cost of having someone remove or re-install an installed unit if applicable, travel to and from the sevicer, and loss of media, data or other memory contents. The items listed are not exclusive, but are for illustration only.) **ALL EXPRESS AND IMPLIED WARRANTIES, INCLUDING THE WARRANTY OF MERCHANTABILITY, ARE LIMITED TO THE PERIOD OF THE LIMITED WARRANTY.**

Some states do not allow the exclusion or limitation of incidental or consequential damages, or limitations on how long an implied warranty lasts, so the exclusions may not apply to you.

This warranty gives you specific legal rights and you may also have other rights which vary from state to state. If a problem with this product develops during or after the warranty period, you may contact your dealer or Service Center.

RetroSound™

Model One
Owner's & Installation Guide

Model One AM / FM Radio w/ USB MP3 Playback and Infinimount Shaft/Bracket System

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Note: The information enclosed in this installation guide is to be used as merely an outline to assist you during the process of installation. This guide does not cover every installation possibility, vehicle, or every aspect of the installation process.

Retro Manufacturing, LLC , Retrosound, or its subsidiaries, assume no responsibility for a proper or improper installation. Every attempt has been made to make this installation guide as informative as possible, and therefore may be updated from time to time. Please check our website for the latest upate. (www.retrosoundusa.com).

Version 1.0
Jan 2008

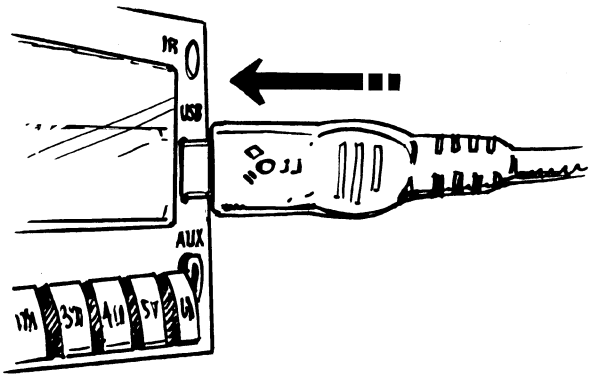
Tech Update

RetroSound™

Tech Update

Thanks for your purchase of our new Model One Radio! Please note that when inserting the male mini-USB cable into the front of the radio, that you insert it straight, NOT at an angle, if the plug is pushed in at an angle, there is a chance that you may bend one of the gold pins on the female end connector in the faceplate.
Please call us at: 888-325-1555 or email us at support@retrosoundusa.com for any questions you may have!

Insert Cable Straight (see illustration below)



NOT at an angle